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 TI Method of production of cellular nonautoclave concrete for wall members
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 CC 58-2 (Cement, Concrete, and Related Building Materials)

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CLASS

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AB The method includes proportioning of cement, silica component, gas-forming agent, additives, and water followed by stirring the mix simultaneously with hydromech. activation; additives are proportioned addnl.; duration of the activation is 5 to 10 min; gas-forming agent is introduced in 2-3 min before mixing completion. The mix for production of nonautoclave aerated concrete containing cement, silicate component in the form of fly ash from thermoelec. power plants or fine sand, building gypsum, gas-forming agent, plasticizer, and water. The gas-forming agent is aluminum powder or paste. The activating additive is soda sulfite waste of alumina production process or another product containing sodium sulfate. The concrete mix contains cement 48-52, silica component 10-14, water 35-37.5, gas-forming agent 0.04-0.06, building gypsum 1.2-1.4, activating additive 1.2-1.4, and superplasticizer S-3 0.25-0.35 weight%. The method provides fast hardening of the mix, and enhanced strength and d. of concrete.

ST cellular concrete cement fly ash
 gypsum silica

IT Concrete

48-52 - Cement
 35-37.5 - water
 10-14 - fly ash (silica component)
 - superplasticizer [plasticizer]